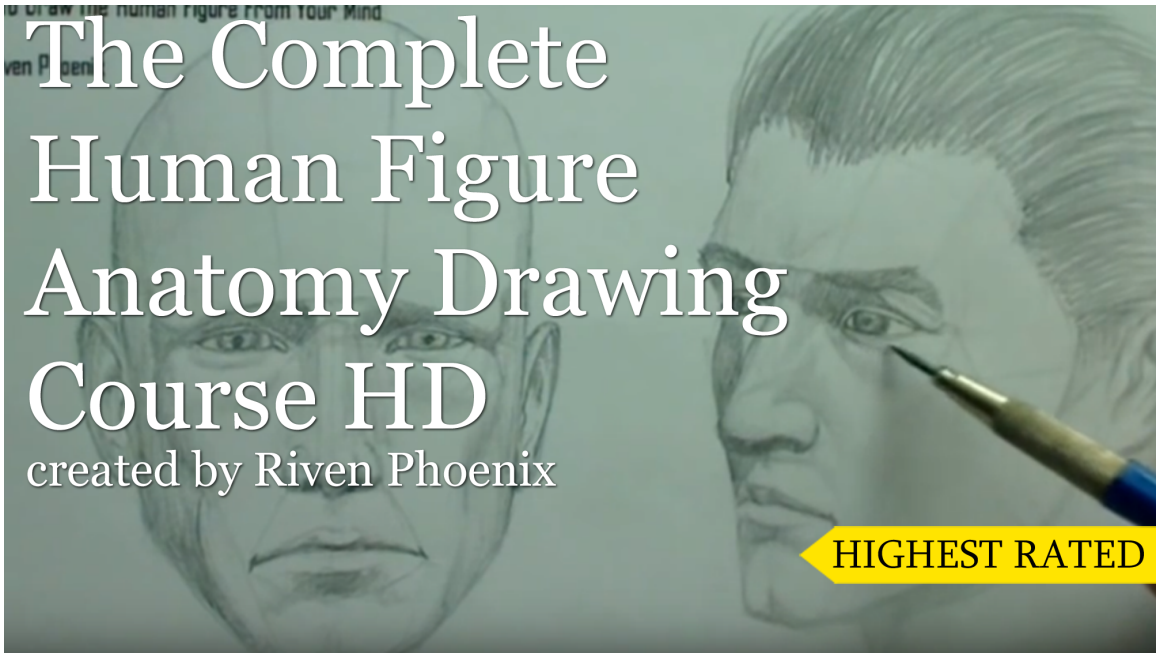

The Structure of Man

Learn to Draw the Human Figure From Your Mind with Riven Phoenix

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Figure Drawing Lesson 049 - Side Formulas for the invention of the Tibia and Fibula

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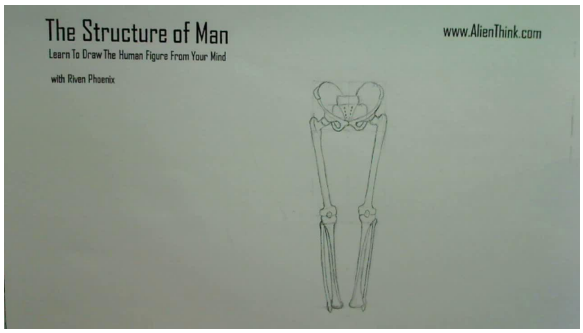
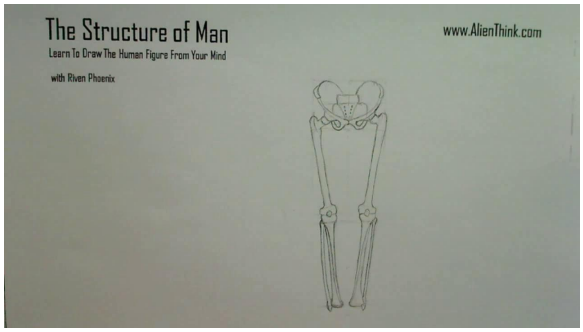
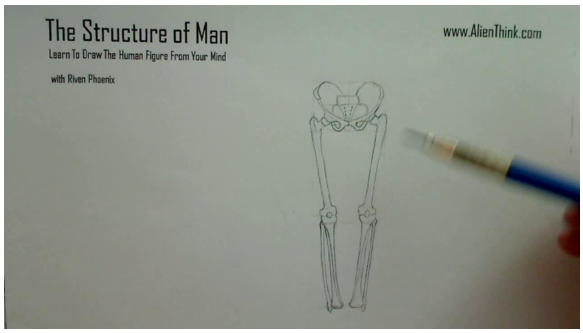
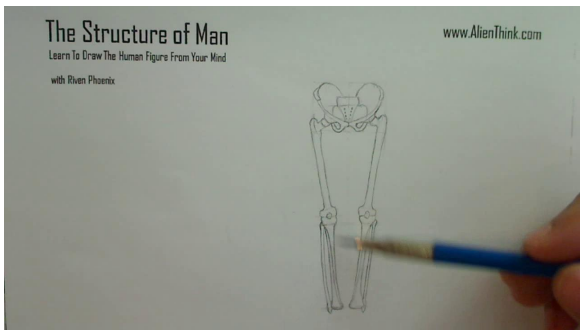
1		Hey guys, my name is Riven Phoenix, welcome to the structure of the Hunter Draw the
2		human figure from your mind training course.
3		Okay, so in the previous lesson we had looked at the tibia, which is the larger bone.
4		We had created this, invented it with our own rules, and then we also had created this

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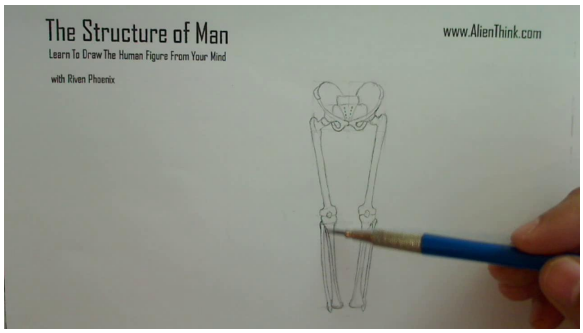
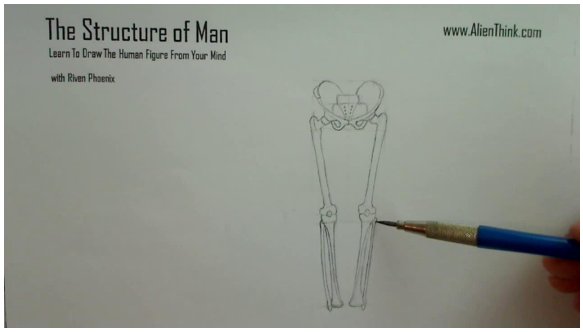
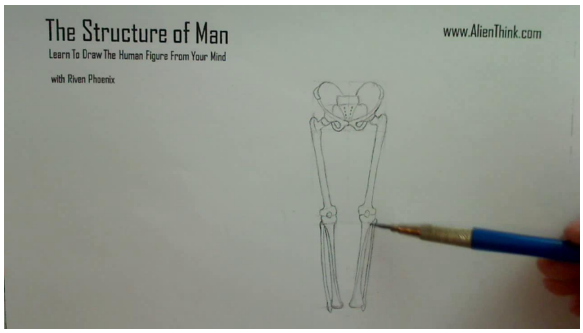
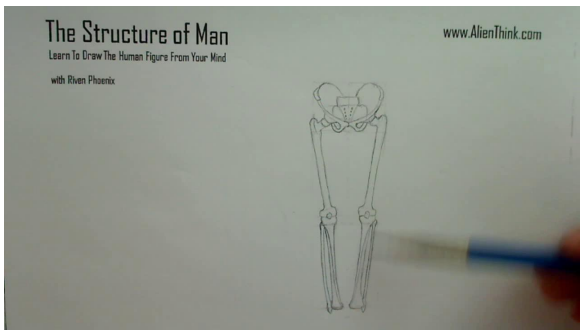
5		much more smaller bone, which is the fibula, right?
6		So we know that this bone here is really on the back of this bone.
7		So to understand this part here, it's going to be a key area in our figure, because it's
8		going to help us to understand what happens to the figure if we had put on muscles in

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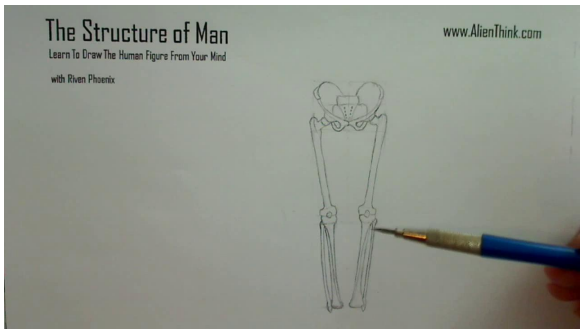
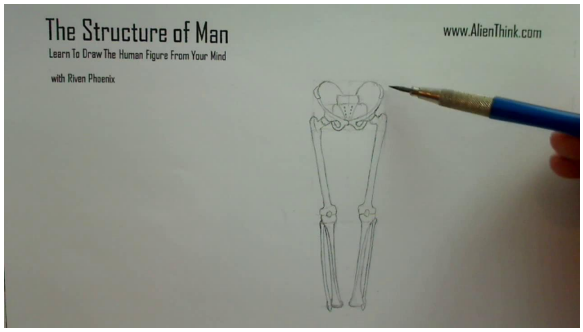
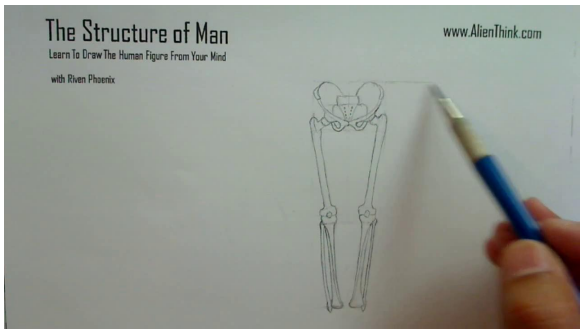
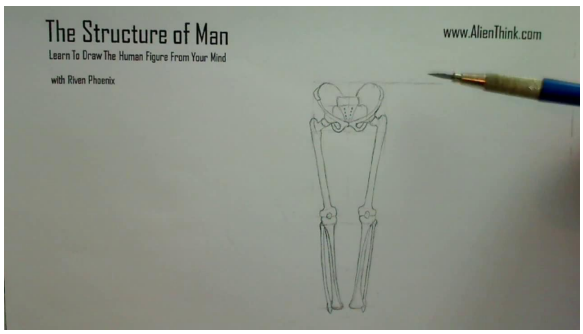
9		its basic form as to what's causing some curves to happen.
10		So for this, basically we're just going to start out, we're just going to actually draw
11		that grid again over here.
12		And really this is going to be pretty much the same thing over here.

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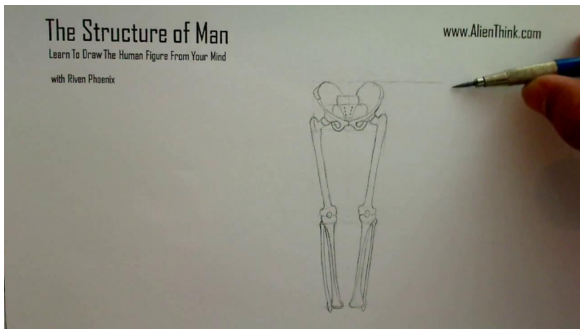
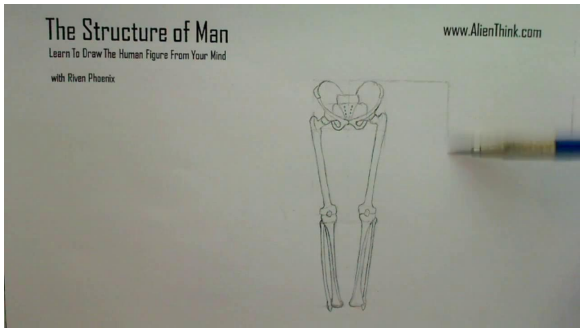
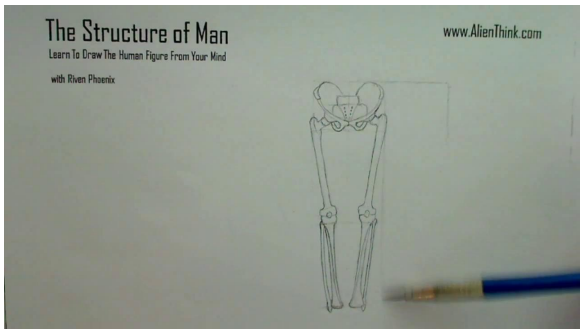
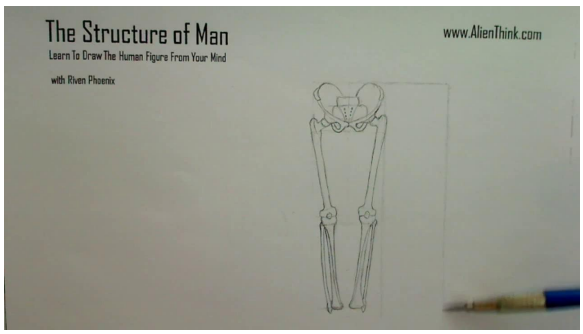
13		So here we're just going to crank it in a little bit over here, right?
14		So here I'm just going to make sure that I'm getting these lines correctly.
15		So here we're going to have to draw out that box shape so we can fit these ideas in, because
16		the gravity line is really just going to help us understand.

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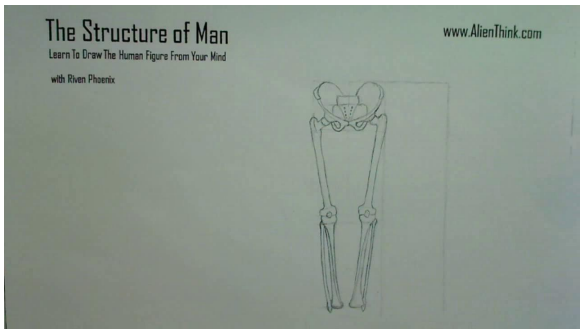
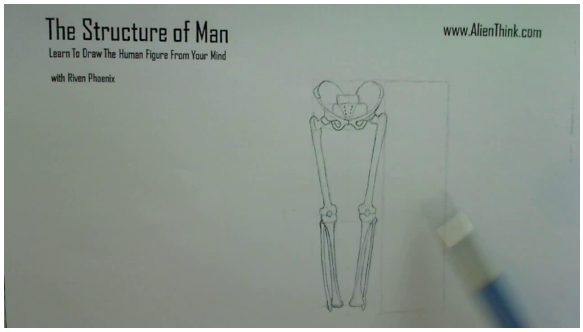
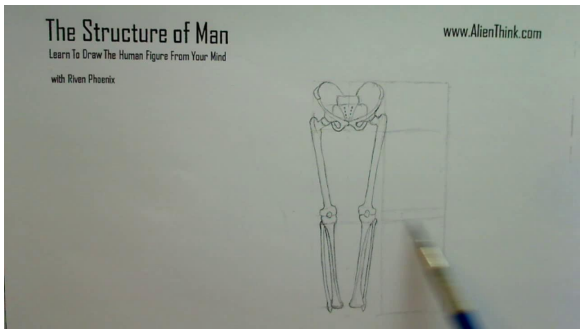
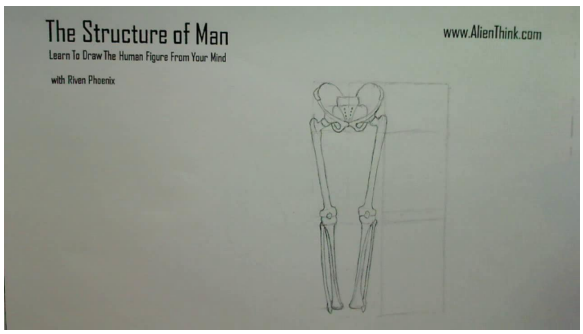
17		So just note that when it comes to the legs, the legs can move anywhere, but only in this
18		idea of a study that we're doing is why we're using the gravity line to help us just understand
19		what's going on.
20		So basically here what I drew is the bottom of the pelvis.

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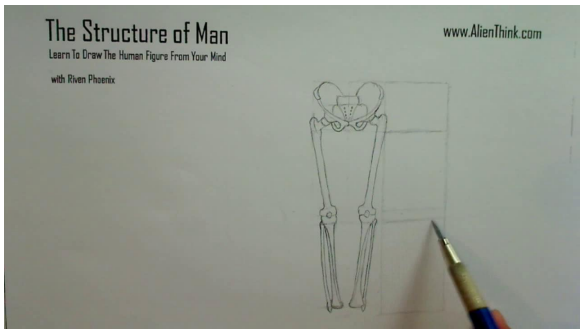
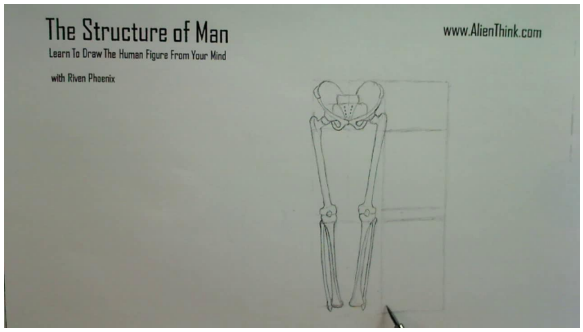
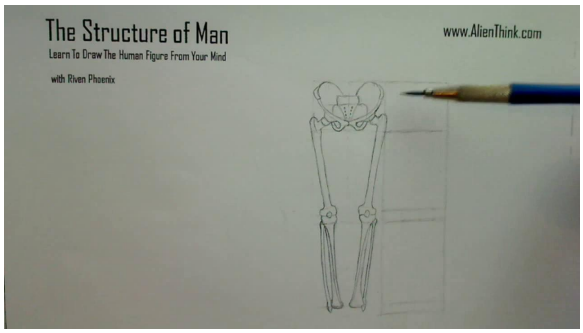
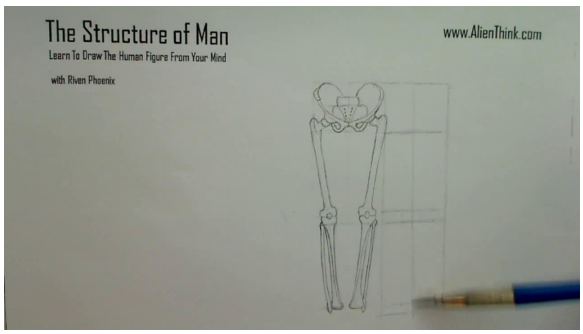
21		This is the line where the knee must be above it, and this is the other line over here.
22		And this is the bottom, and we know that we need to compensate for the area for the foot.
23		And basically we can just divide this in half just to help us to understand some basic
24		concepts of this.

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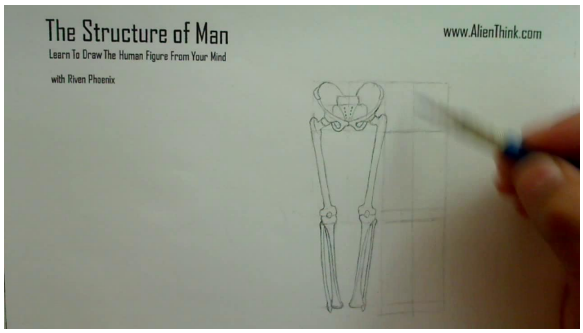
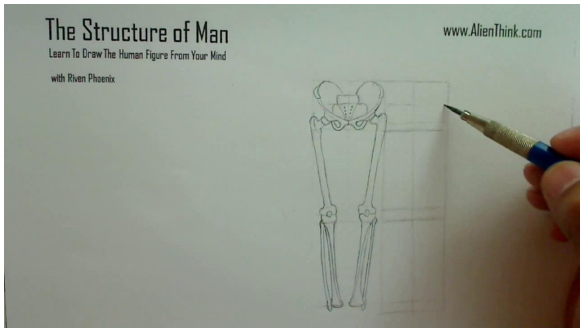
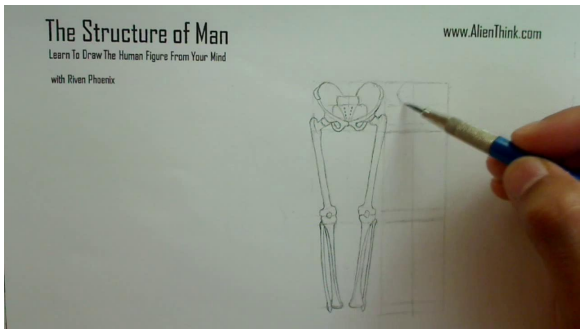
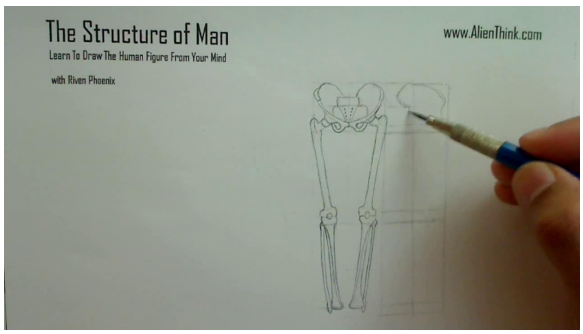
25		So once we have this, we already know that over here, we're going to now get the pelvis
26		area over here, which is going to be pretty simple to make, even without the sacrum,
27		we can still just draw it out like this, right, just really nothing more to this.
28		We already know how this is going to end up over here, right, so here we can actually

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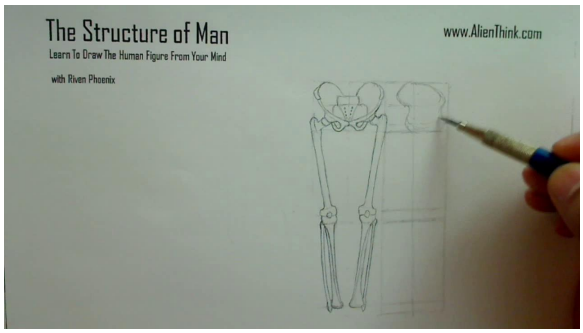
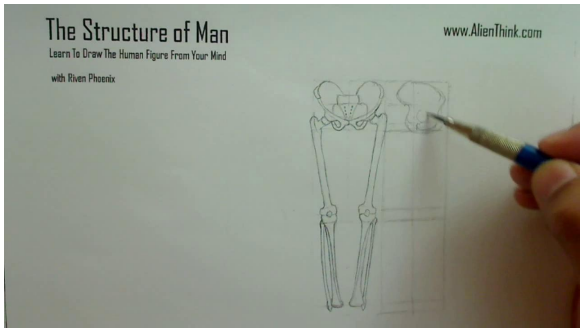
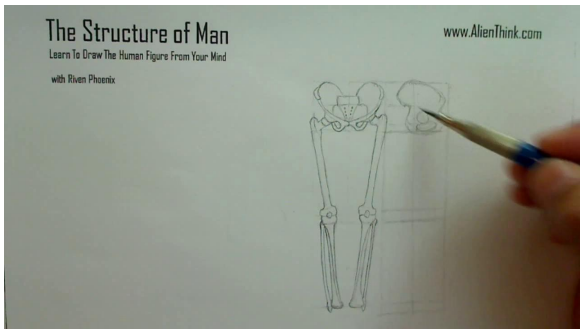
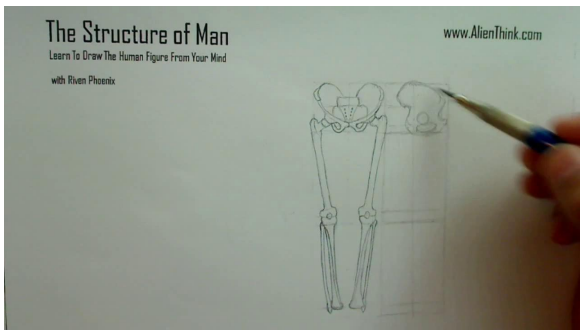
29		forget this in a little bit more.
30		And then you'll get your air here for the pelvis, right, so let's say in this situation
31		where we put the green art, now here I'm just making this a little more wider because
32		right, they're going to be different variations of it, but really what if you had drawn out

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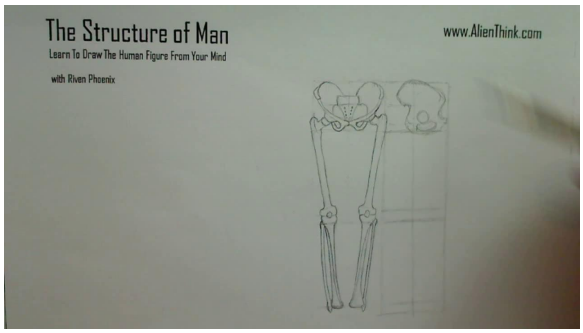
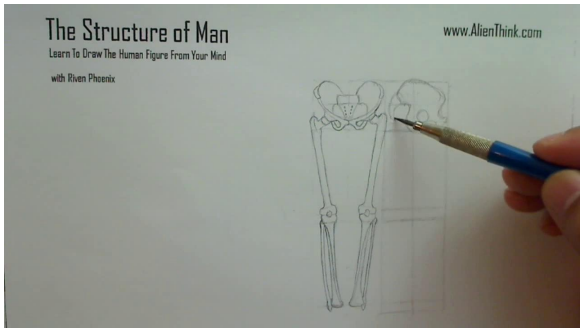
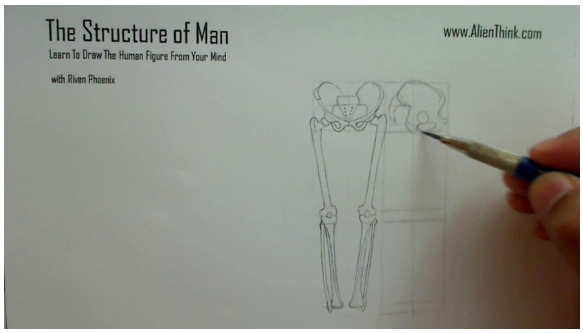
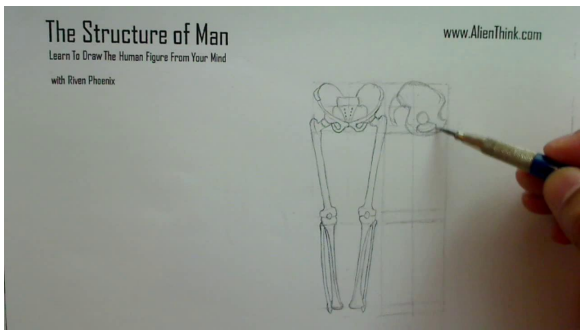
33		the whole figure, right, the proportions would be based on the figure itself, just like
34		this, right, so we know that we're going to get this right too.
35		It's just going to go here, here, and go like this, and we know that that's like the basic
36		conceptual idea of it.

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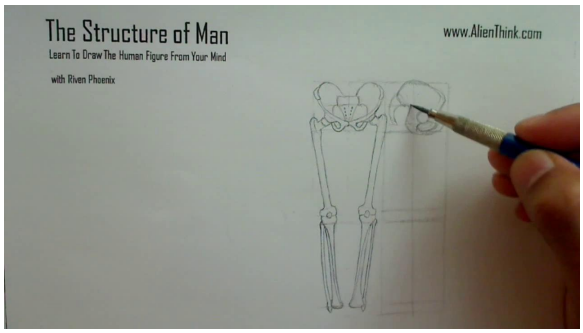
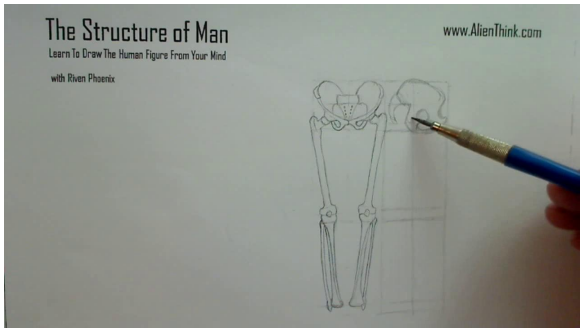
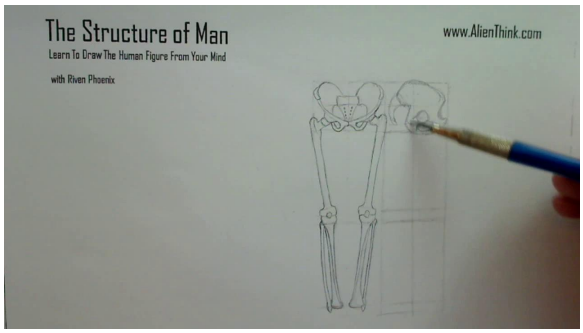
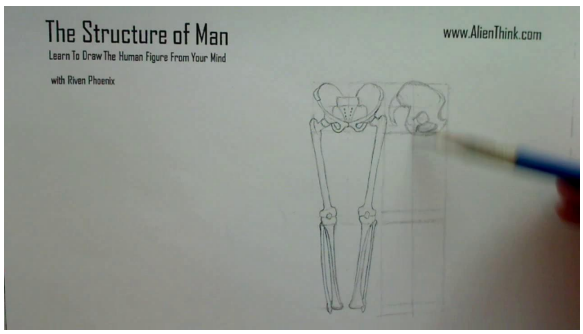
37		Okay, so once we have this, we already know how to do the femur, right, it's very simple.
38		It's just going in this direction like so that we had done before.
39		And basically this guy is going to, when it comes down over here, right, the idea was
40		that this gravity line is the key to this, that we're just going to turn in a little bit

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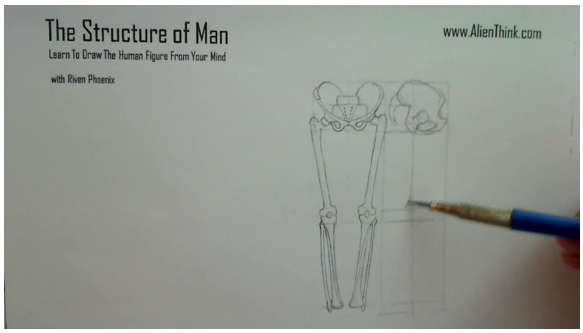
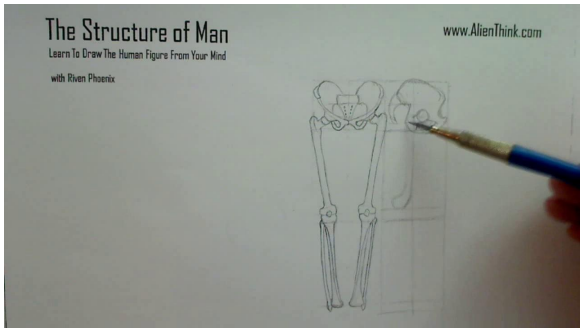
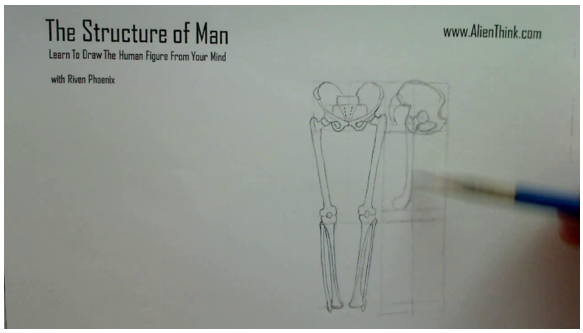
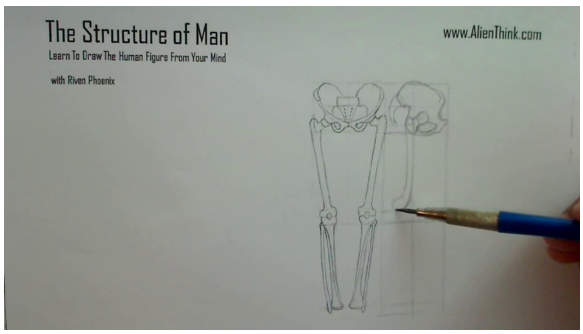
41		like this, right, it's not simple, and then we're going to, it's going to be like this
42		hook system, and basically it'll just come down like this, right, it's not, it's only
43		in your memory management thinking we're only using this gravity line, but just know that
44		this is what happens to it over here, right, because the leg could have been facing this

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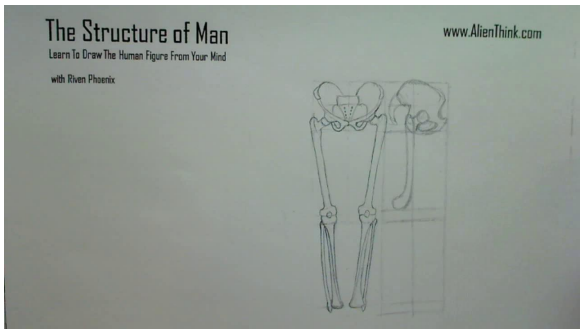
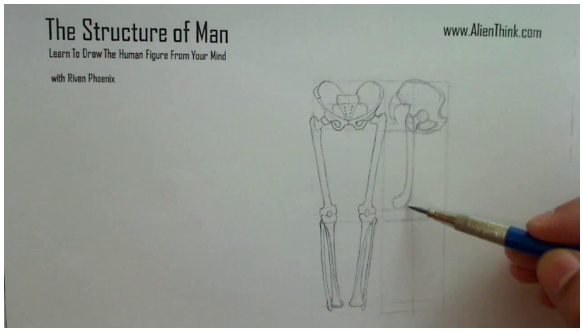
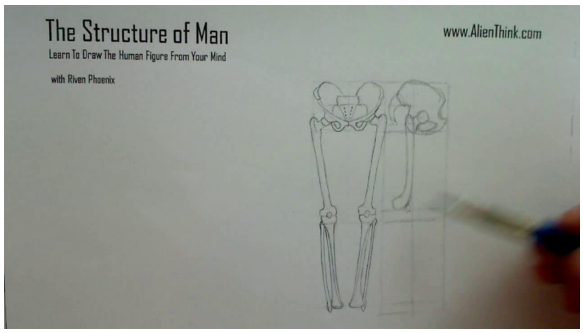
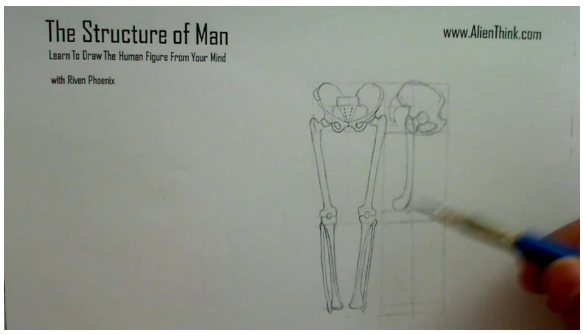
45		way if we wanted to draw it.
46		So this is pretty, going to be pretty straightforward.
47		So now we come to that area of understanding the, the tibia.
48		So let's first understand the tibia, how this, this is going to work.

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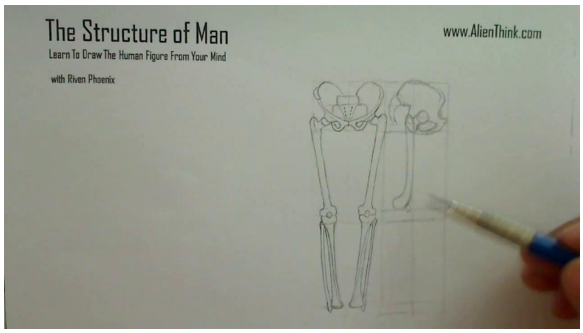
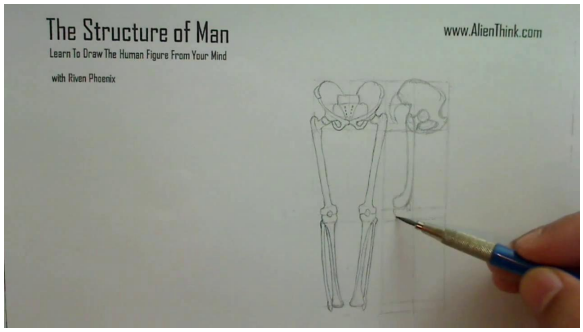
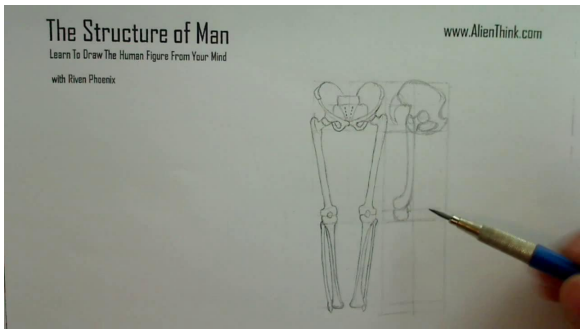
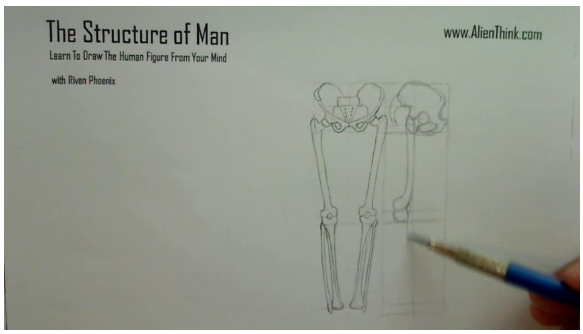
49		So from the front, we know it's just very simple, and then from the back, we're now going
50		to start to understand this from the side here.
51		So basically the idea here is that where this bone is, it's going to come out this way.
52		See how this is coming out?

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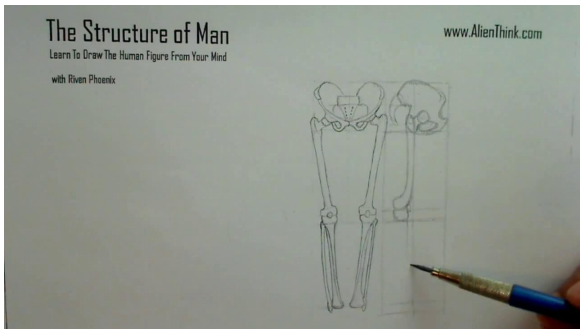
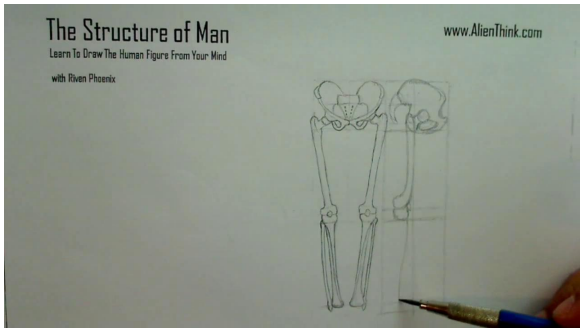
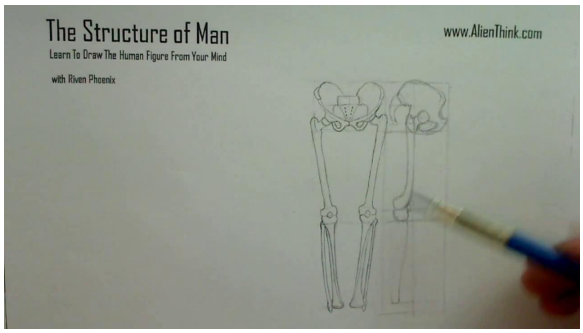
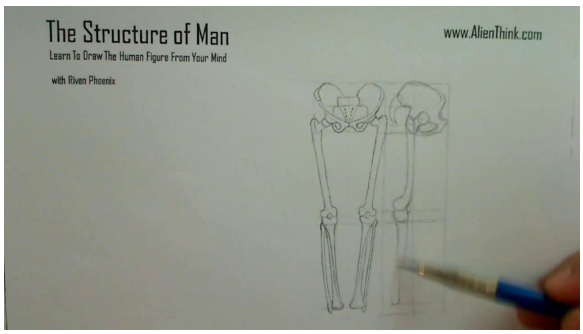
53		And basically around halfway here, it's going to just turn in just a little bit and end
54		up over here, okay, and it's just going to be like this over here.
55		So over here, this bone is really, should be coming out like this, over here it's going
56		to be much more fatter, and over here it's going to be like this, right, and the, the

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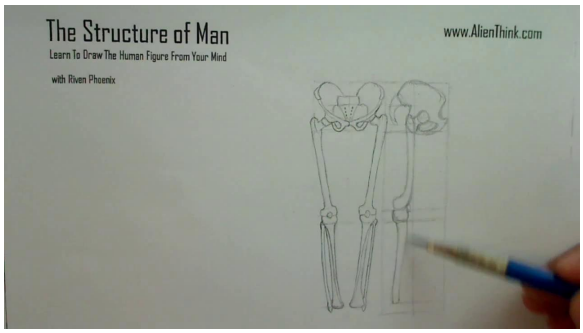
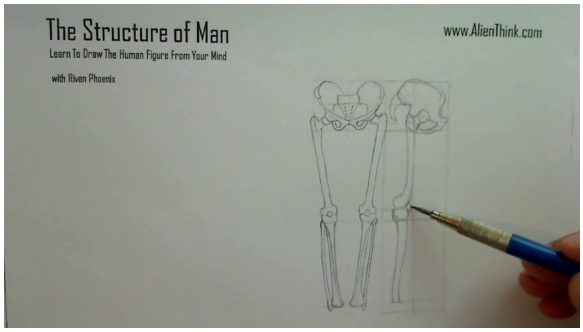
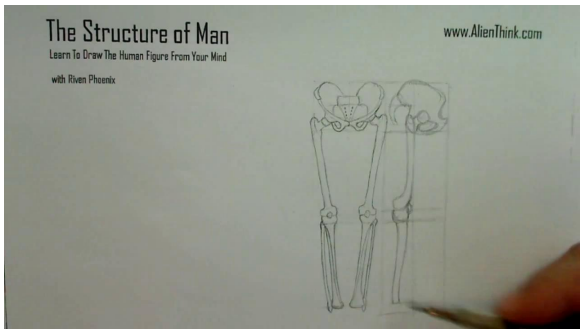
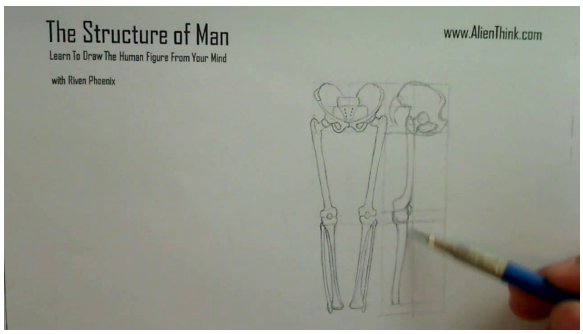
57		significant thing to understand about this is this is what's going to help us understand,
58		right, this is where the, basically the knee is going to be over here, okay, the, the
59		thing to understand about this is when we get into basic, we'll now always know that
60		right, when we're drawing out really even in basic shapes, if we had the calf muscles

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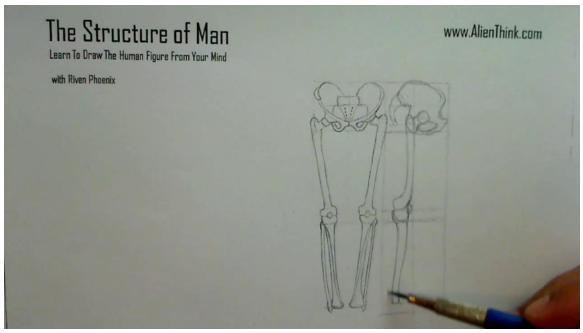
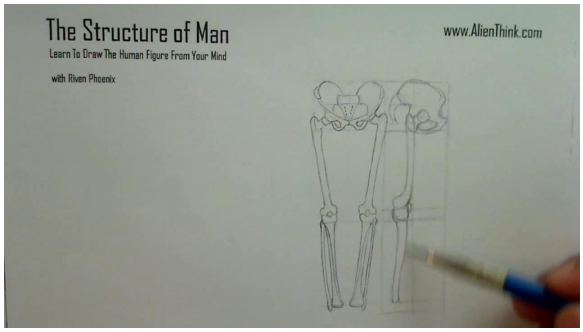
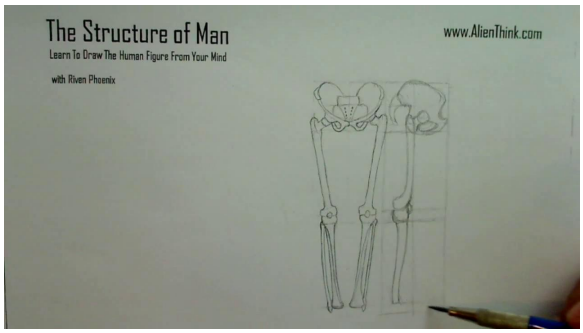
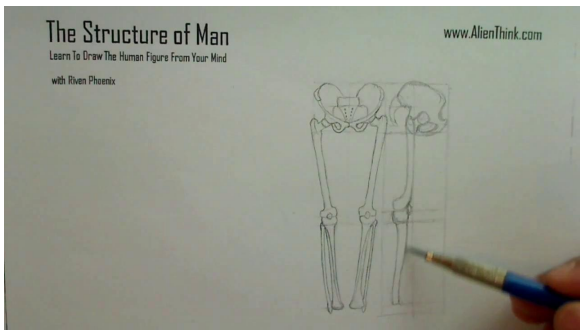
61		here, right, you're going to get the calf muscles here, all that good stuff over here,
62		when you make it, you know, you know about this curve that this is what causes the foot
63		to look like the foot, because there's a bend here, right, that's why from the front
64		you, you, you, you want to remember that, right, this is, that's all there was, right,

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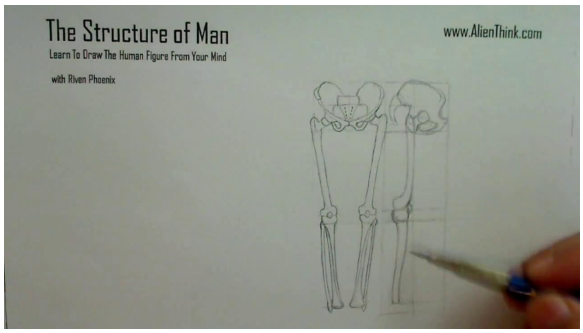
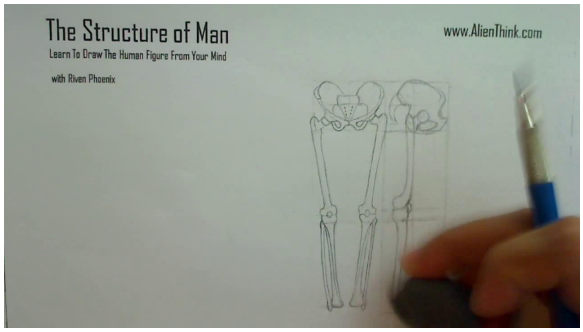
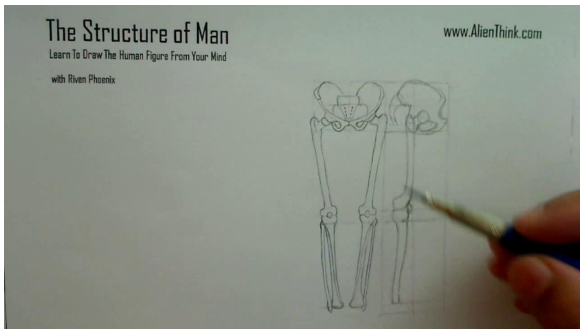
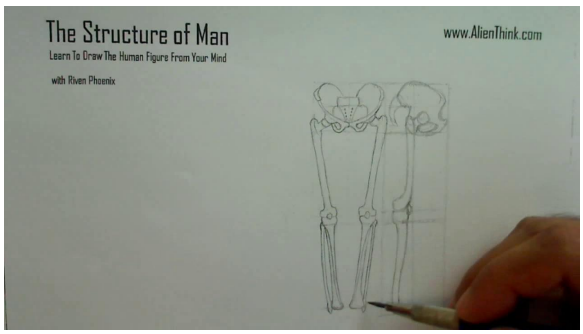
65		so these bones are very simple to understand, very simple to remember, right, very basic
66		shape concepts.
67		So once we have this, now the fibula is going to be very easy, since we have state it's
68		really on the other side, it's really nothing more than sitting over here, right, because

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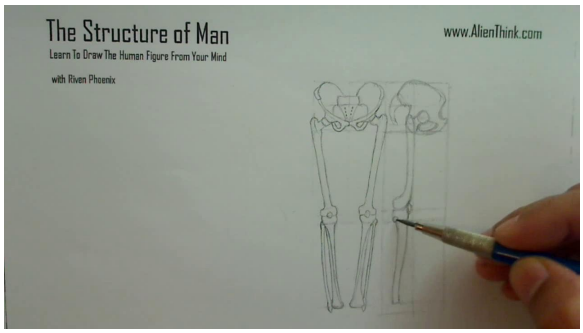
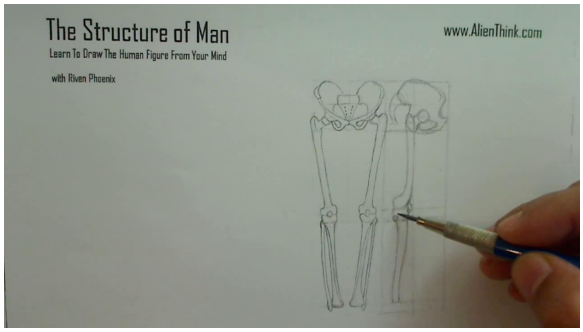
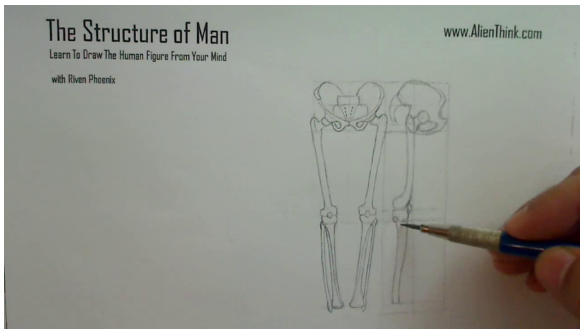
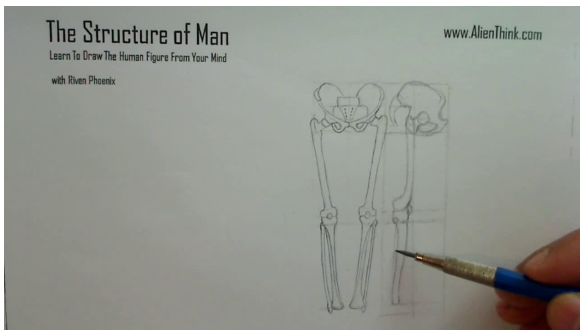
69		it has to be on the back, and, and, and it'll play a very important role when you get to
70		the muscles is that when we start to put the muscles you'll see as to how this is used
71		as a, as a point of reference also, so basically this is very easy, this is going to be nothing
72		more than this guy coming here in the back, right, this is going to just go like this

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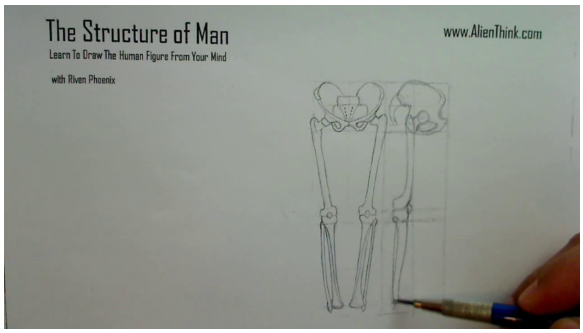
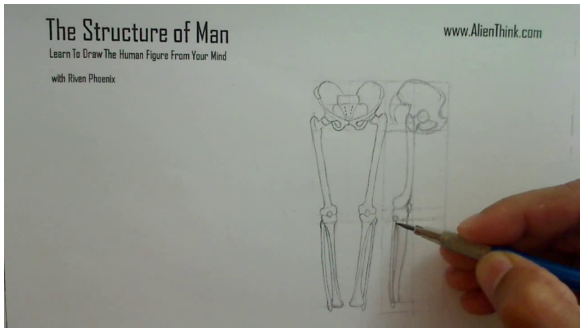
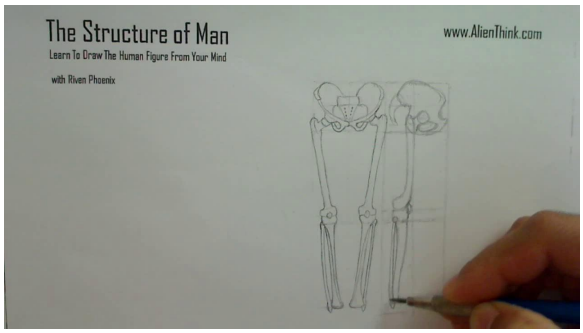
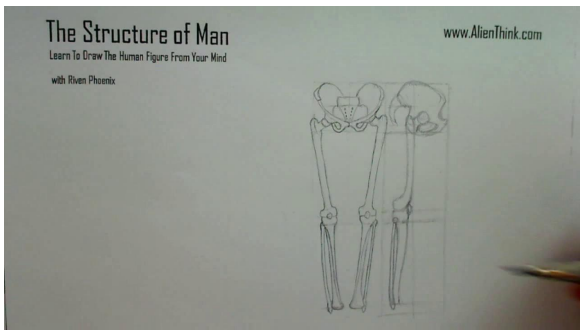
73		over here, and it's just going to twist and turn and just go this way, okay, very simple.
74		So what this means is, you're just going to get this guy over here, and this is that
75		area where it comes out from your foot, right, this angle over here, this is the lower
76		part, you're going to begin to understand how where this guy is, and where this guy is,

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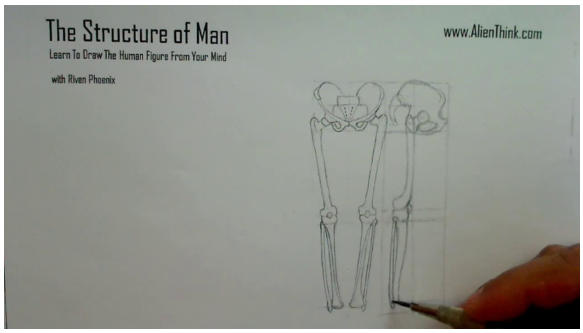
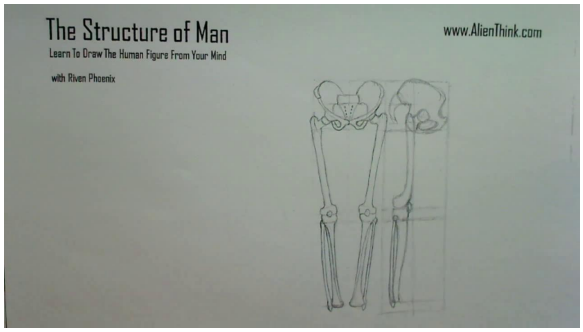
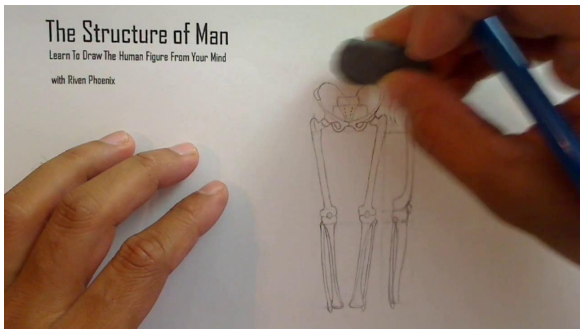
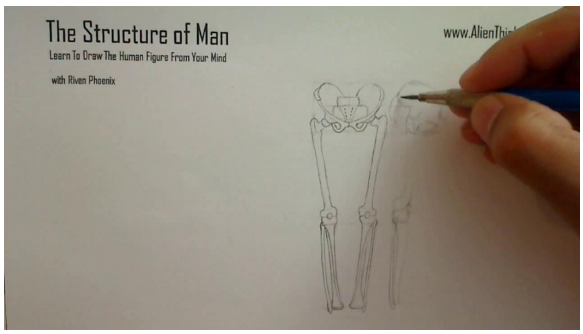
77		right, they're off a little bit, right, he's always more in the back, okay, so once we've
78		gotten this we can basically now erase all these lines here and fix this up, okay, so
79		I'm just going to lightly erase all this stuff here again, right, so now when I draw it
80		out I can just do my own version of this a little bit over here, right, going this direction

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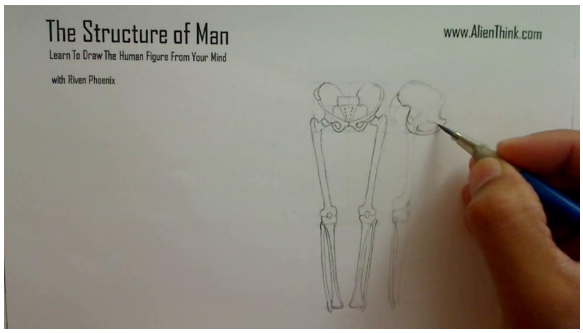
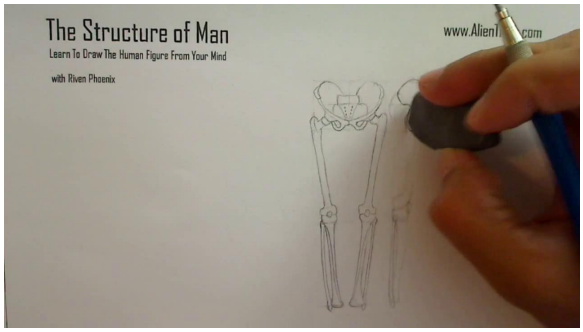
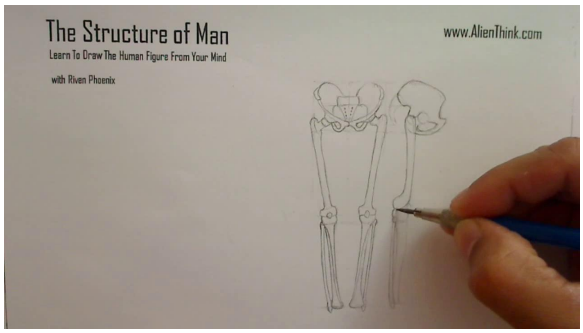
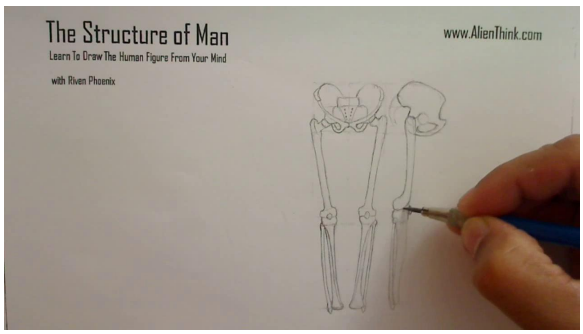
81		over here, and this is going to be like this over here, in this bone, I'm going to erase
82		this part here, so I can use it for the bone over here, so, and over here, whether you're
83		going to meet over here you're going to get that knee cap, right, so really all we need
84		to do is just draw it like this, right, this thing is really just floating like this,

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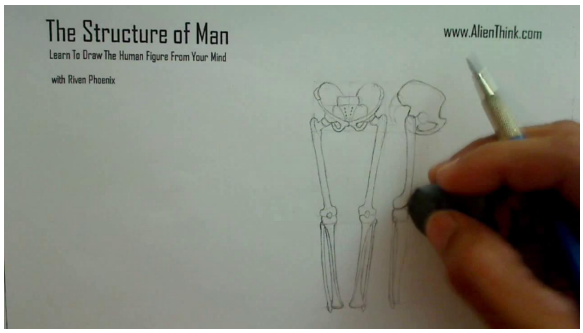
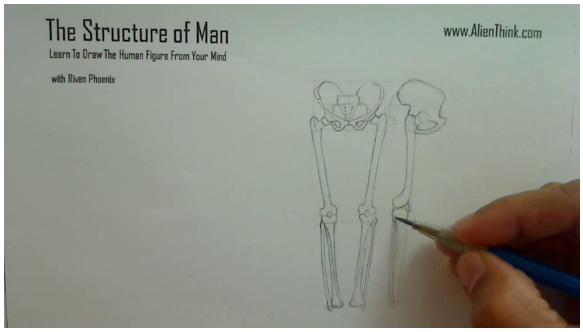
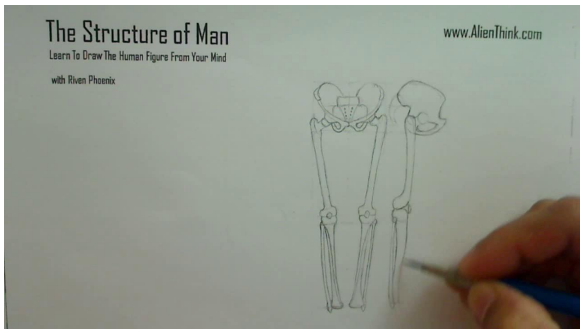
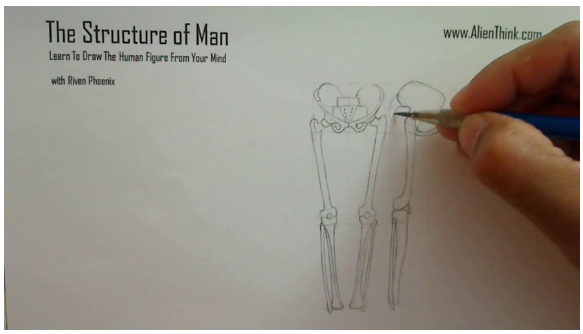
85		to do it that dark, just lighten it up a little bit, matches the drawing like this, okay,
86		in over here it stated that this is just going to be curving in here, and this is going
87		to go like this, going to be a little bit of curve, just like this, okay, and then here
88		we can just finish this up over here, okay, and we're basically done with understanding

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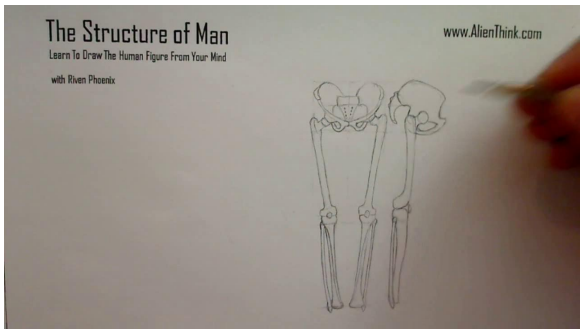
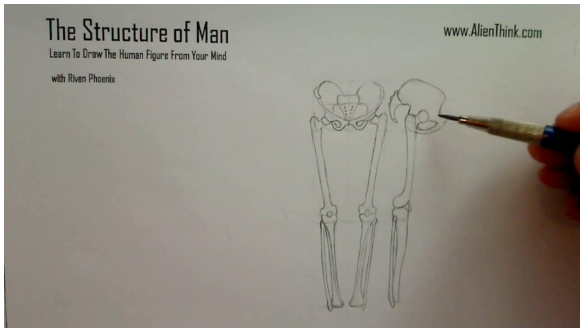
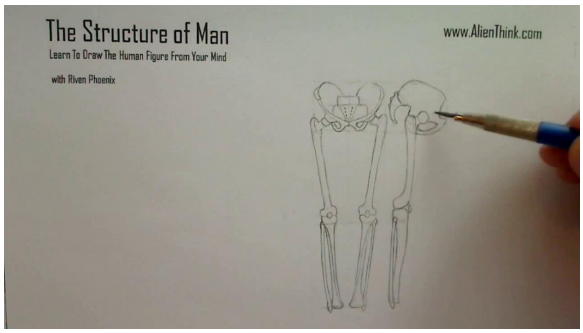
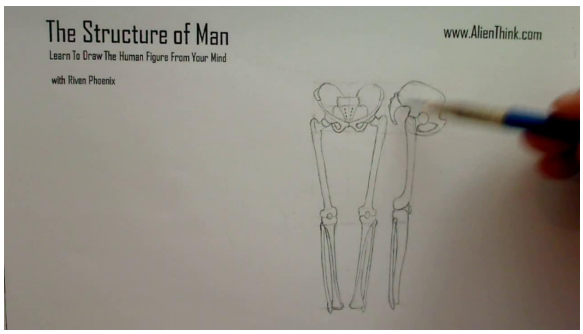
89		the side, really didn't take that long to put this together, okay, so one of the thing
90		here is what I want to show you is now this idea here, right, we really just based it on the
91		width, so you can see that the way we've done it is that it's kind of wide, right, so even
92		when you get to this point and you don't want it to be that wide, right, because we didn't

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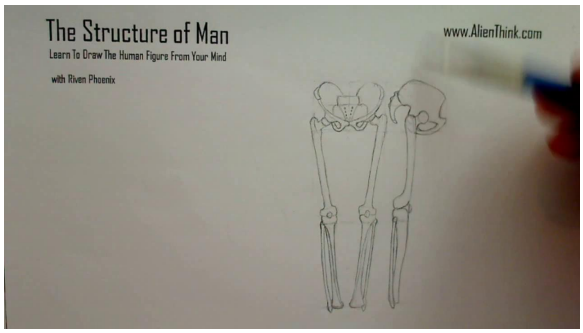
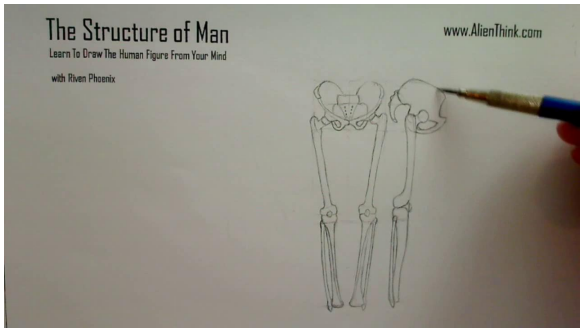
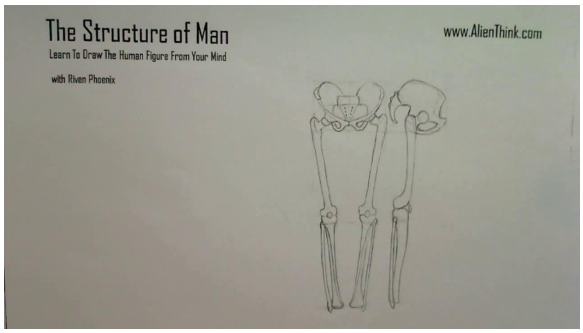
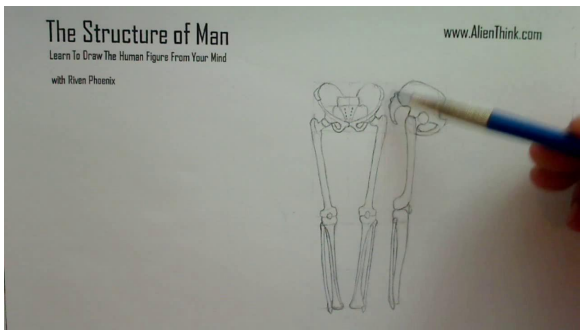
93		have the whole structure here anyways, right, so you can truncate this a little bit, you
94		can come in and just say that, okay, I want to actually put this in a little bit, right,
95		but it doesn't really matter, right, because this just means that it's just a much more
96		powerful character over here, and it's going to get much more, like a much more muscular

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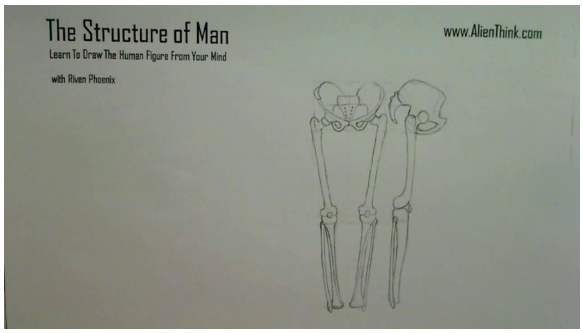
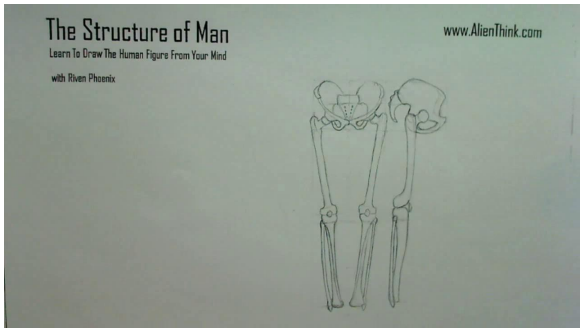
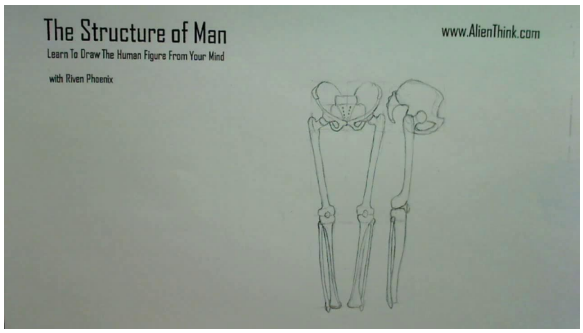
97		guy like Arnold Schwarzenegger, right, so you can understand how the variations in bone structure
98		will matter in this, right, but here we've got that as a concept going, okay, so I'll see
99		you in the next lesson, thank you.

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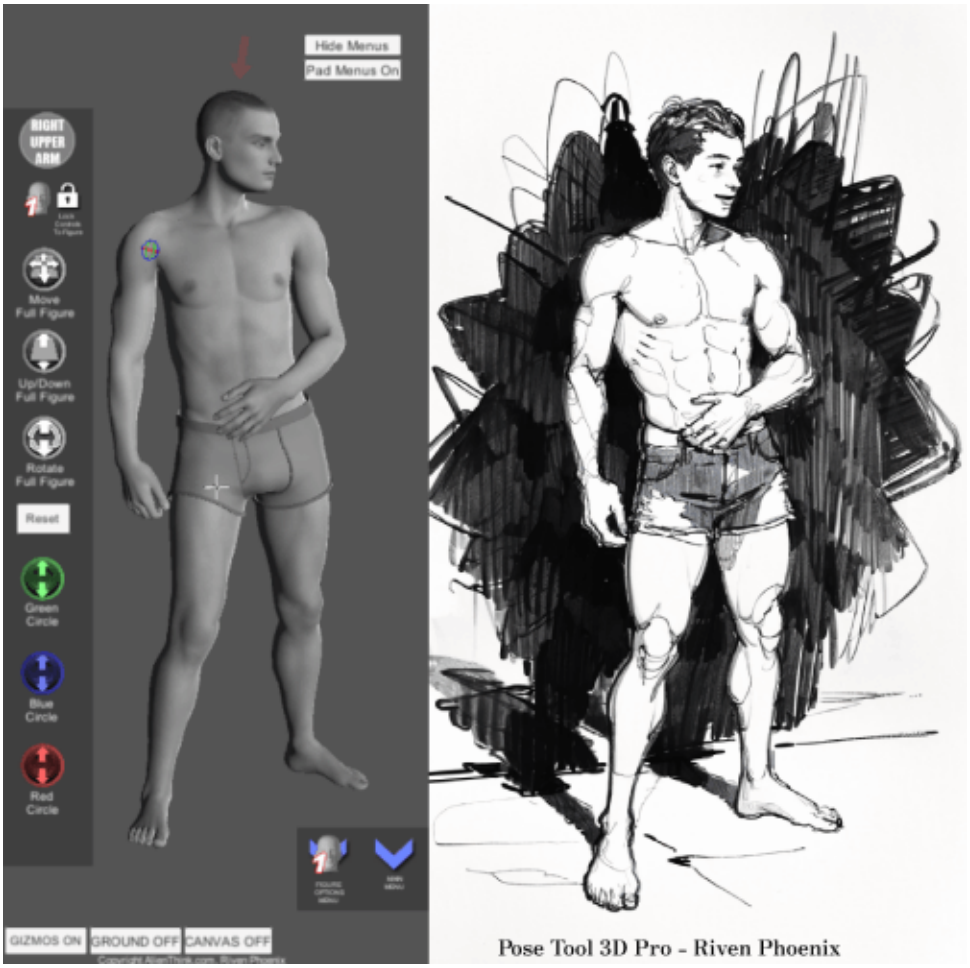

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